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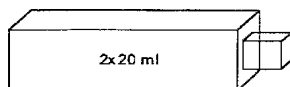
(54) Title: NOVEL METHOD FOR THE PREPARATION OF EMBRYOID BODIES (EBs) AND USES THEREOF

**Protocol 1**  
Generation of EBs from high-density cell suspension

4 ml suspension with  $2 \times 10^6$  ES cells/ml

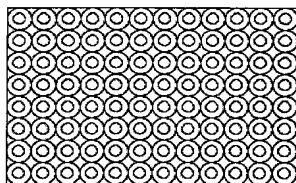


Agitation for 6 h at 50 rpm



Dilution 1:20 into 2 T25 flasks

Agitation for 12 - 18 h at 50 rpm



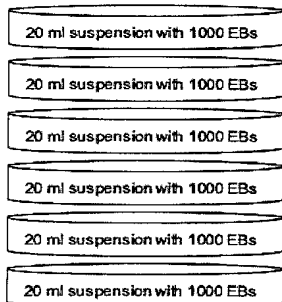
Final dilution and sorting of single EBs into 96-well plates, adding of test compounds

**Protocol 2**  
Generation of EBs from low-density cell suspension

10 ml suspension with  $0.2 \times 10^6$  ES cells/ml



Agitation for 48 h at 50 rpm



Final dilution of EBs after 48 h, suspension culture for differentiation of cardiomyocytes

(57) Abstract: Provided are means and methods for producing embryoid bodies (EBs) from multi- or pluripotent cells. In particular, a method of generating embryoid bodies (EBs) is described comprising agitation of a liquid suspension culture of multi- or pluripotent cells in a container until generation of cell aggregates, optionally diluting the suspension, and further agitation of the suspension until formation of EBs. Furthermore, the present invention relates to the use of the novel culturing method and EBs obtained thereby for a variety of applications including genomics, diagnostic assays, teratogenic/embryotoxicological and pharmacological assays as well as for the provision of tissue grafts.

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